

From the INTERNATIONAL SEARCHING AUTHORITY

To:	
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PCT

POST OFFICE BOX 7068 PASADENA, CA 91109-7068	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY					
	(PCT Rule 43bis.1)					
	Date of mailing (day/month/year)	6 AUE 2004				
Applicant's or agent's file reference	FOR FURTHER ACTION					
51835P/L471	See paragraph 2 be	510W				
International application No. International filing date (day/month/year) Priority date (day/month/year)						
PCT/US04/01575 20 January 2004 (20.		(17.01.2003)				
International Patent Classification (IPC) or both national classif	cation and IPC					
IPC(7): B22D 11/06, 27/00 and US Cl.: 164/79, 463		<u> </u>				
Applicant	•	·				
LIQUIDMETAL TECHNOLOGIES, INC.		·				
1. This opinion contains indications relating to the following i	ems:					
Box No. I Basis of the opinion						
Box No. II Priority		•				
Box No. III Non-establishment of opinion with	regard to novelty, inventive step and indu	strial applicability				
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited	Certain documents cited					
Box No. VII Certain defects in the international	Certain defects in the international application					
Box No. VIII Certain observations on the interna	Box No. VIII Certain observations on the international application					
2. FURTHER ACTION						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing address of the ISA/ US	Authorized officer					
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Kuang Y. Lin					
P.O. Box 1450						
Alexandria, Virginia 22313-1450 Telephone No. 571-272-1700 Facsimile No. (703) 305-3230						

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/01575

BOX IN	No. 1 Basis of	this opinion		· .			
_	_						· .
		language, this opinion otherwise indicated und		on the basis of the	e international a	application in the	language in which
		has been established or language of a translatio					
2. With clain	n regard to any ned invention, t	y nucleotide and/or a this opinion has been es	amino acid sequence	disclosed in the	e international	application and	necessary to the
a.	type of mater	rial			·		•
	a seque	ence listing			•		·.
	table(s)) related to the sequence	ce listing				·
b.	format of mat	iterial	•				
	in writt	ten format					
	in com	puter readable form				•	
c.	time of filing/	/furnishing					
	Contain	ed in international app	plication as filed.				•
	filed to	gether with the interna	ational application in c	omputer readable	e form.		•
	furnishe	ed subsequently to this	Authority for the pur	poses of search.		•	
3.	filed or furnish	in the case that more the	ements that the informa	ation in the subse	sequent or additi	ional copies is ide	hereto has been entical to that in
		n as filed or does not g	so beyond the applicati	ion as filed, as ar	ppropriate, were	e furnished.	
1. Additi	tional comments	,:					•
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/01575

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement	линиетоно вирр	orting seen statement	
1. Statement			
Novelty (N)	Claims	1-18, 22-26	YES
	Claims	19-21, 27-29	NO
Inventive step (IS)	Claims	1-18, 22-26	YES
	Claims	19-21, 27-29	NO
Industrial applicability (IA)	Claims	1-29	YES
- -	Claims	NONE	NO

2. Citations and explanations:

Claims 19-21 and 27-29 lack novelty or inventive step under PCT Article 33(2)-(3) as being anticipated by or obvious in view of Patten. The cast article of Patten appears to be the same as that of instant invention though the casting process of Patten is different from that of instant process.

Claims 1-18 and 22-26 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed feature of providing a molten bulk-solidifying amorphous alloy or the specific microstructure of the cast article.

Claims 1-29 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.